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I. REPORT NUMBER: DOD POP HMTR/AYD 91-005

Performance Oriented Packaging Report for Charge, Demolition, Block M112 II. TITLE:

AUTHOR: Frank M. Sniezek

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army

ARDEC, SMCAR-AEP HQ, U.S. Army Armament, Munitions, and Chemical Command

Picatinny Arsenal, NJ 07806-5000

DATE: 16 July 91

Approved for public release; Distribution is unlimited



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1. DATA SHEET

CONTAINER

Type: Box UN Code: 4C1

Nomenclature: Box, Wirebound, Packing, Ammunition, for Charge,

Demolition, M112

Specification Number: Type II, Class 1, Grade A, Mil-B-46506

Drawing Number: 8876127 Material: Wood and wire Gross Weight: 47.0 pounds

Outside Dimensions: 13 3/4 in. \times 11 9/16 in. \times 7 15/16 in. Inside Dimensions: 11 3/8 in. \times 10 7/16 in. \times 6 15/16 in.

PRODUCT

Name: Charge, Demolition, M112

Drawing Number: 9204248
United Nations Number: 0048

Physical State: Solid Amount per Container: 30

2. BACKGROUND, TESTS, AND RESULTS

Reference the following documents:

- a. United Nations Transport of Dangerous Goods, Sixth Edition
- b. Federal Register dated December 21, 1990
- c. Federal Register Notice dated February 21, 1991

Instead of testing the specific container used for the M112 Demolition Charge, wirebound boxes built to the same specification, but with the following weight and dimensions were tested.

Gross Weight: 87 lb.

Inside Dimensions: 13 in \times 10 7/16 in \times 6 15/16 in

This falls within the guidelines for analogy IAW Variation III of Reference 2c.

A Stacking Test was conducted on 3 containers with a weight of 2500 pounds for 24 hours. This weight exceeds the minimum requirement of a weight equivalent to a 10 foot stack height which is 1314 pounds.

A Loose Cargo Test was conducted IAW with the Federal Register on the same 3 containers. The packages were tested at a vibration table frequency such that the bottom of the packages was raised 1/2 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicate that there was no leakage or spillage of the containers following any of the tests conducted, and as such, meets the requirements of the Federal Register and The United Nations Transport of Dangerous Goods.